

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P454246

Luminaire Tested: **GALN-SA5B-750-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454246
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5B-750-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20519 lumens
Efficiency: N/A
Efficacy: 100.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

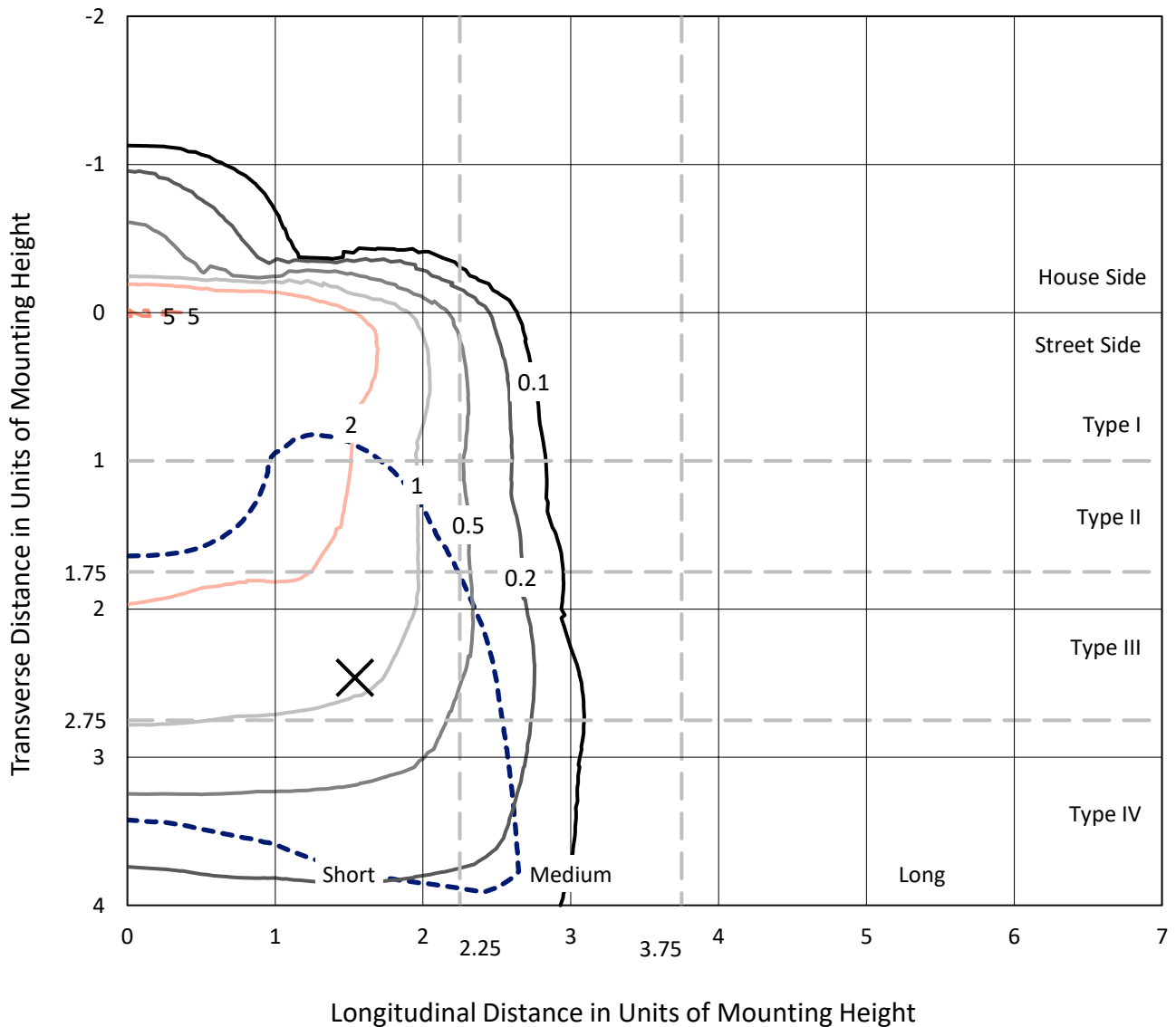
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P454246
 CATALOG NUMBER: GALN-SA5B-750-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

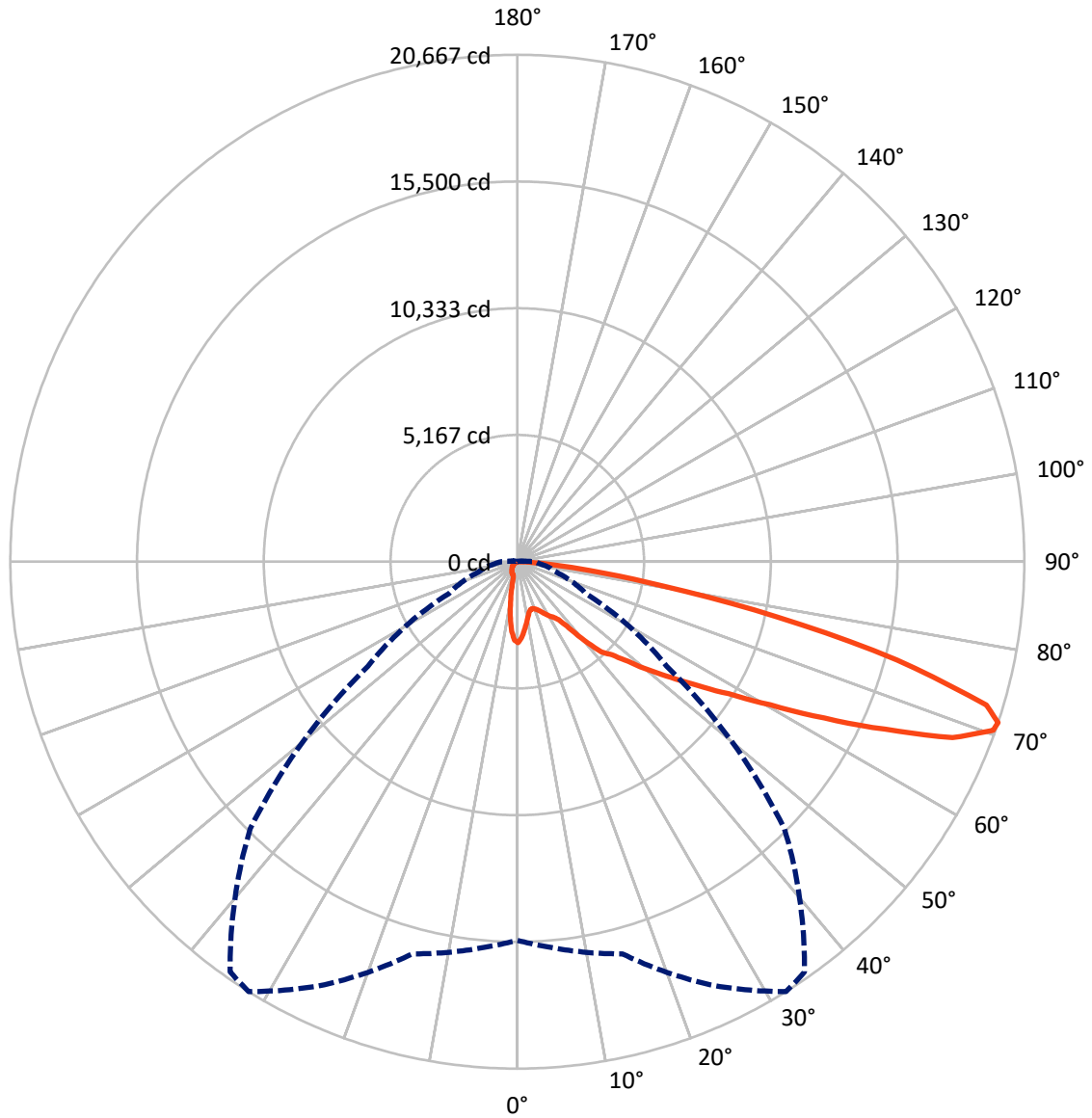
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type IV - Short - N/A

REPORT NUMBER: P454246
CATALOG NUMBER: GALN-SA5B-750-U-T4FT-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

REPORT NUMBER: P454246
 CATALOG NUMBER: GALN-SA5B-750-U-T4FT-HSS

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1718.7 | 0.0 | 1718.7 |
| | % Fixture | 8.4 | 0.0 | 8.4 |
| Street Side | Lumens | 18800.3 | 0.0 | 18800.3 |
| | % Fixture | 91.6 | 0.0 | 91.6 |
| Total | Lumens | 20519.0 | 0.0 | 20519.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 268.3 | 1.3 |
| 10°-20° | 582.3 | 2.8 |
| 20°-30° | 905.9 | 4.4 |
| 30°-40° | 1509.3 | 7.4 |
| 40°-50° | 2807.5 | 13.7 |
| 50°-60° | 4507.6 | 22.0 |
| 60°-70° | 6062.9 | 29.5 |
| 70°-80° | 3597.2 | 17.5 |
| 80°-90° | 278.1 | 1.4 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-90° | 20519.0 | 100.0 |
| 0°-180° | 20519.0 | 100.0 |



REPORT NUMBER: P454246

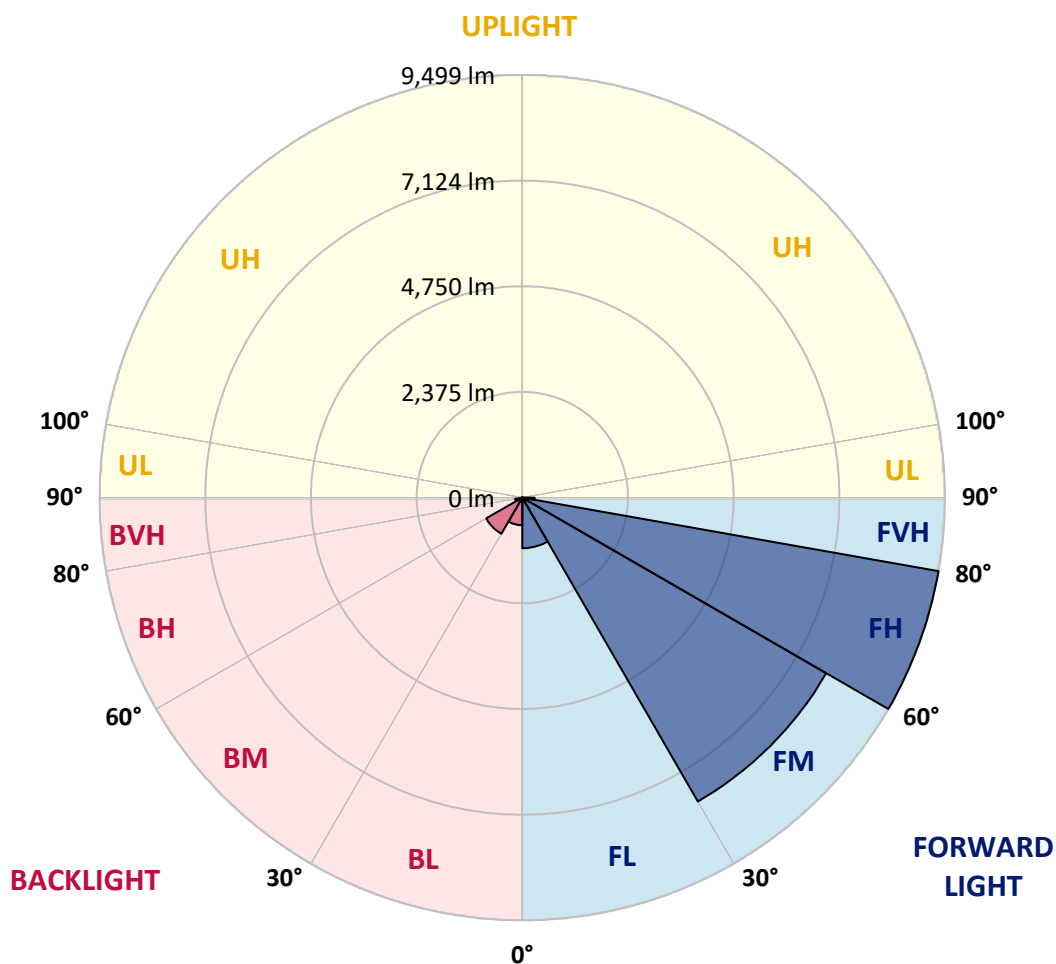
CATALOG NUMBER: GALN-SA5B-750-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 1137.3 | 5.5 | | | |
| FM | (30°-60°) | 7886.7 | 38.4 | | | |
| FH | (60°-80°) | 9499.3 | 46.3 | | | G4/12000 |
| FVH | (80°-90°) | 277.0 | 1.3 | | | G3/500 |
| BL | (0°-30°) | 619.3 | 3.0 | B2/1000 | | |
| BM | (30°-60°) | 937.6 | 4.6 | B1/1000 | | |
| BH | (60°-80°) | 160.8 | 0.8 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 1.1 | 0.0 | | | G0/10 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G4

Type IV Short





REPORT NUMBER: P454246

CATALOG NUMBER: GALN-SA5B-750-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 32° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|--------|---------|---------|
| 0° | 3299.8 | 3299.8 | 3299.8 | 3299.8 | 3299.8 | 3299.8 | 3299.8 | 3299.8 | 3299.8 | 3299.8 | 3299.8 |
| 2.5° | 3060.4 | 3091.9 | 3087.1 | 3098.2 | 3124.9 | 3136.0 | 3165.9 | 3199.0 | 3244.6 | 3276.1 | 3296.6 |
| 5° | 2740.6 | 2764.3 | 2767.4 | 2822.5 | 2849.3 | 2879.2 | 2967.4 | 3063.5 | 3170.6 | 3255.7 | 3312.4 |
| 7.5° | 2398.8 | 2411.4 | 2436.6 | 2509.1 | 2576.8 | 2606.7 | 2740.6 | 2907.6 | 3076.1 | 3235.2 | 3337.6 |
| 10° | 2116.9 | 2131.1 | 2176.7 | 2253.9 | 2316.9 | 2356.3 | 2542.2 | 2751.7 | 2987.9 | 3224.2 | 3373.8 |
| 12.5° | 1956.2 | 1964.1 | 1981.4 | 2050.7 | 2131.1 | 2173.6 | 2373.6 | 2613.0 | 2917.0 | 3228.9 | 3435.2 |
| 15° | 1945.2 | 1942.1 | 1921.6 | 1949.9 | 2022.4 | 2066.5 | 2261.8 | 2518.5 | 2854.0 | 3244.6 | 3507.7 |
| 17.5° | 2003.5 | 1995.6 | 1946.8 | 1946.8 | 2006.6 | 2042.9 | 2214.6 | 2468.1 | 2822.5 | 3280.9 | 3610.1 |
| 20° | 2093.3 | 2080.7 | 2000.3 | 1994.0 | 2052.3 | 2090.1 | 2242.9 | 2471.3 | 2828.8 | 3348.6 | 3747.1 |
| 22.5° | 2206.7 | 2192.5 | 2071.2 | 2074.4 | 2137.4 | 2175.2 | 2324.8 | 2528.0 | 2868.2 | 3432.1 | 3893.6 |
| 25° | 2354.7 | 2339.0 | 2195.7 | 2189.3 | 2255.5 | 2288.6 | 2446.1 | 2628.8 | 2923.3 | 3536.0 | 4085.7 |
| 27.5° | 2551.6 | 2518.5 | 2346.9 | 2337.4 | 2408.3 | 2450.8 | 2592.6 | 2764.3 | 3021.0 | 3679.4 | 4344.0 |
| 30° | 2713.8 | 2677.6 | 2513.8 | 2488.6 | 2564.2 | 2597.3 | 2743.8 | 2947.0 | 3213.1 | 3929.8 | 4701.6 |
| 32.5° | 2926.5 | 2872.9 | 2680.8 | 2614.6 | 2694.9 | 2737.5 | 2962.7 | 3287.2 | 3498.2 | 4194.4 | 5126.9 |
| 35° | 3405.3 | 3372.2 | 3137.5 | 2906.0 | 2901.3 | 2954.8 | 3285.6 | 3630.5 | 3791.2 | 4607.1 | 5706.5 |
| 37.5° | 4090.5 | 4066.8 | 3818.0 | 3507.7 | 3417.9 | 3392.7 | 3677.8 | 4008.6 | 4259.0 | 5174.1 | 6380.6 |
| 40° | 4885.9 | 4830.7 | 4602.4 | 4339.3 | 4222.8 | 4148.7 | 4140.9 | 4570.9 | 4870.1 | 5944.3 | 7083.1 |
| 42.5° | 5456.0 | 5355.2 | 5078.0 | 5059.1 | 5033.9 | 4956.8 | 4733.1 | 5393.0 | 5659.2 | 6772.8 | 7834.4 |
| 45° | 6054.6 | 5901.8 | 5489.1 | 5418.2 | 5408.8 | 5404.1 | 5627.7 | 6366.4 | 6519.2 | 7670.6 | 8606.2 |
| 47.5° | 6519.2 | 6397.9 | 6059.3 | 6027.8 | 6067.2 | 6174.3 | 6810.6 | 7399.7 | 7368.2 | 8470.7 | 9253.5 |
| 50° | 7138.2 | 7046.9 | 6670.4 | 6730.3 | 6933.5 | 7108.3 | 8144.7 | 8525.9 | 8065.9 | 9100.8 | 9724.5 |
| 52.5° | 7869.1 | 7700.5 | 7350.9 | 7513.1 | 7825.0 | 8116.3 | 9560.7 | 9511.9 | 8555.8 | 9574.9 | 10075.7 |
| 55° | 8502.2 | 8382.5 | 8262.8 | 8431.4 | 8897.6 | 9261.4 | 10839.6 | 10250.6 | 8911.8 | 9956.0 | 10230.1 |
| 57.5° | 9573.3 | 9544.9 | 9422.1 | 9593.8 | 10159.2 | 10537.2 | 11984.7 | 10823.9 | 9140.1 | 10154.5 | 10049.0 |
| 60° | 11157.8 | 11112.1 | 10883.7 | 11102.7 | 11839.8 | 12433.6 | 13040.0 | 11338.9 | 9192.1 | 10077.3 | 9527.6 |
| 62.5° | 13063.6 | 12907.7 | 12712.4 | 13035.3 | 14046.5 | 14308.0 | 14033.9 | 11644.5 | 8998.4 | 9463.0 | 8270.7 |
| 65° | 14843.5 | 14682.8 | 14687.5 | 15368.0 | 16469.0 | 16646.9 | 15193.1 | 11598.8 | 8431.4 | 7924.2 | 6100.3 |
| 67.5° | 16205.9 | 16179.1 | 16371.3 | 17699.1 | 19138.7 | 19015.8 | 16229.5 | 10915.2 | 6750.8 | 5136.3 | 3241.5 |
| 70° | 16275.2 | 16327.2 | 16878.5 | 19119.8 | 20581.5 | 20386.2 | 16141.3 | 8872.4 | 4208.6 | 2362.6 | 1277.4 |
| 71° | 15437.3 | 15786.9 | 16549.3 | 19075.7 | 20666.5 | 20412.9 | 15397.9 | 7431.2 | 3087.1 | 1647.5 | 921.4 |
| 72.5° | 13155.0 | 13339.3 | 14986.8 | 17952.7 | 19994.0 | 19452.1 | 13512.5 | 5208.8 | 1976.7 | 1008.0 | 529.2 |
| 75° | 7245.3 | 7699.0 | 10036.4 | 14084.3 | 15991.7 | 15516.0 | 8806.2 | 2474.4 | 986.0 | 551.3 | 218.9 |
| 77.5° | 3449.4 | 3361.2 | 4896.9 | 8376.2 | 10842.8 | 10817.6 | 4437.0 | 1099.4 | 574.9 | 373.3 | 110.3 |
| 80° | 986.0 | 1108.9 | 1874.3 | 3981.8 | 6019.9 | 6086.1 | 1704.2 | 530.8 | 398.5 | 291.4 | 56.7 |
| 82.5° | 297.7 | 304.0 | 688.3 | 1760.9 | 2994.2 | 2822.5 | 639.5 | 270.9 | 286.7 | 231.5 | 33.1 |
| 85° | 52.0 | 64.6 | 203.2 | 620.6 | 1141.9 | 866.3 | 160.7 | 129.2 | 189.0 | 152.8 | 18.9 |
| 87.5° | 3.2 | 4.7 | 67.7 | 70.9 | 100.8 | 58.3 | 28.4 | 18.9 | 41.0 | 41.0 | 11.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P454246

CATALOG NUMBER: GALN-SA5B-750-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3299.8 | 3299.8 | 3299.8 | 3299.8 | 3299.8 | 3299.8 | 3299.8 | 3299.8 | 3299.8 | 3299.8 | 3299.8 |
| 2.5° | 3310.8 | 3320.3 | 3314.0 | 3299.8 | 3276.1 | 3247.8 | 3210.0 | 3178.5 | 3151.7 | 3137.5 | 3154.9 |
| 5° | 3331.3 | 3343.9 | 3312.4 | 3241.5 | 3134.4 | 3017.8 | 2885.5 | 2783.2 | 2702.8 | 2677.6 | 2668.2 |
| 7.5° | 3362.8 | 3370.7 | 3285.6 | 3128.1 | 2901.3 | 2625.6 | 2384.7 | 2181.5 | 2024.0 | 1976.7 | 1907.4 |
| 10° | 3403.7 | 3399.0 | 3238.3 | 2945.4 | 2546.9 | 2132.6 | 1759.4 | 1482.1 | 1272.7 | 1197.1 | 1190.8 |
| 12.5° | 3466.7 | 3441.5 | 3178.5 | 2696.5 | 2124.8 | 1582.9 | 1121.5 | 877.3 | 745.0 | 700.9 | 691.5 |
| 15° | 3545.5 | 3485.6 | 3084.0 | 2405.1 | 1627.0 | 1022.2 | 691.5 | 617.4 | 600.1 | 597.0 | 593.8 |
| 17.5° | 3638.4 | 3543.9 | 2959.6 | 2047.6 | 1143.5 | 663.1 | 578.1 | 576.5 | 578.1 | 574.9 | 573.3 |
| 20° | 3764.4 | 3605.3 | 2811.5 | 1623.9 | 756.0 | 559.2 | 551.3 | 551.3 | 552.9 | 551.3 | 551.3 |
| 22.5° | 3898.3 | 3677.8 | 2628.8 | 1239.6 | 570.2 | 530.8 | 529.2 | 532.4 | 535.5 | 533.9 | 533.9 |
| 25° | 4063.7 | 3772.3 | 2387.8 | 849.0 | 510.3 | 507.2 | 508.7 | 515.0 | 521.3 | 522.9 | 521.3 |
| 27.5° | 4303.1 | 3888.9 | 2129.5 | 584.4 | 467.8 | 470.9 | 486.7 | 502.4 | 511.9 | 513.5 | 513.5 |
| 30° | 4572.4 | 4018.0 | 1792.4 | 474.1 | 433.1 | 433.1 | 452.0 | 482.0 | 502.4 | 505.6 | 507.2 |
| 32.5° | 4918.9 | 4167.6 | 1419.1 | 426.8 | 400.1 | 396.9 | 414.2 | 450.5 | 488.3 | 499.3 | 499.3 |
| 35° | 5347.4 | 4344.0 | 1055.3 | 396.9 | 376.4 | 368.6 | 378.0 | 407.9 | 456.8 | 488.3 | 491.4 |
| 37.5° | 5849.8 | 4511.0 | 771.8 | 370.1 | 354.4 | 343.4 | 349.7 | 373.3 | 412.7 | 459.9 | 472.5 |
| 40° | 6314.5 | 4659.1 | 576.5 | 348.1 | 332.3 | 324.5 | 329.2 | 340.2 | 373.3 | 417.4 | 425.3 |
| 42.5° | 6821.6 | 4774.0 | 458.3 | 324.5 | 310.3 | 307.1 | 307.1 | 311.9 | 333.9 | 359.1 | 360.7 |
| 45° | 7327.2 | 4815.0 | 384.3 | 296.1 | 286.7 | 289.8 | 288.2 | 285.1 | 294.5 | 291.4 | 291.4 |
| 47.5° | 7687.9 | 4766.2 | 318.2 | 269.3 | 269.3 | 274.1 | 266.2 | 255.2 | 250.4 | 231.5 | 233.1 |
| 50° | 7935.2 | 4588.2 | 261.5 | 237.8 | 250.4 | 256.7 | 241.0 | 223.7 | 206.3 | 185.9 | 181.1 |
| 52.5° | 8037.6 | 4271.6 | 214.2 | 196.9 | 222.1 | 230.0 | 211.1 | 190.6 | 163.8 | 146.5 | 141.8 |
| 55° | 7971.4 | 3881.0 | 178.0 | 160.7 | 187.4 | 196.9 | 178.0 | 154.4 | 124.4 | 105.5 | 102.4 |
| 57.5° | 7680.1 | 3414.8 | 151.2 | 127.6 | 149.6 | 155.9 | 143.3 | 118.1 | 88.2 | 69.3 | 69.3 |
| 60° | 7176.0 | 2932.8 | 122.9 | 100.8 | 111.8 | 121.3 | 108.7 | 85.1 | 59.9 | 42.5 | 39.4 |
| 62.5° | 6153.8 | 2381.5 | 99.2 | 78.8 | 78.8 | 86.6 | 75.6 | 61.4 | 37.8 | 22.1 | 20.5 |
| 65° | 4443.3 | 1633.3 | 78.8 | 58.3 | 56.7 | 56.7 | 47.3 | 41.0 | 22.1 | 9.5 | 6.3 |
| 67.5° | 2414.6 | 921.4 | 63.0 | 44.1 | 39.4 | 37.8 | 29.9 | 23.6 | 9.5 | 1.6 | 0.0 |
| 70° | 949.8 | 354.4 | 48.8 | 29.9 | 25.2 | 23.6 | 15.8 | 11.0 | 6.3 | 0.0 | 0.0 |
| 71° | 644.2 | 244.1 | 42.5 | 25.2 | 20.5 | 17.3 | 12.6 | 9.5 | 4.7 | 0.0 | 0.0 |
| 72.5° | 368.6 | 151.2 | 33.1 | 18.9 | 15.8 | 12.6 | 9.5 | 6.3 | 4.7 | 0.0 | 0.0 |
| 75° | 160.7 | 77.2 | 20.5 | 14.2 | 11.0 | 7.9 | 6.3 | 4.7 | 1.6 | 0.0 | 0.0 |
| 77.5° | 81.9 | 42.5 | 14.2 | 11.0 | 6.3 | 4.7 | 3.2 | 1.6 | 0.0 | 0.0 | 0.0 |
| 80° | 45.7 | 22.1 | 9.5 | 6.3 | 4.7 | 3.2 | 1.6 | 1.6 | 0.0 | 0.0 | 0.0 |
| 82.5° | 25.2 | 12.6 | 4.7 | 3.2 | 1.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 15.8 | 7.9 | 1.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 7.9 | 3.2 | 0.0 | 0.0 | 0.0 | 0.0 | 1.6 | 1.6 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)